

# PATENT ABSTRACTS OF JAPAN

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## (54) PRODUCTION OF CASTING MOLD

(57)Abstract:

PURPOSE: To improve the resistance of a casting mold to heat, impact and welding of a molten steel by forming a metallic underlying layer on the inside surface base of the casting mold and forming a thermally sprayed zirconia ceramic layer on the underlying layer.

CONSTITUTION: The underlying layer is the thermally sprayed film of a Co-Cr- Al-Y alloy or ceramics such as  $ZrO_2 \cdot Y_2O_3$  or  $ZrO_2 \cdot CaO$  or a mixture composed of said alloy metals and ceramics. An alloy metal such as Ni-Cr may be used as well in place of the Co-Cr-Al-Y alloy. The thermally sprayed zirconia ceramic film is then formed on the underlying layer.

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